

ORIGINAL
MANUAL



INSTALLATION & OWNER'S MANUAL

Centralized Controller



KCCT-64 I (B)



IMPORTANT NOTE

Thank you very much for purchasing our product. Before using your unit, please read this manual carefully and keep it for future reference.

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INSTALLATION PART



1.1 List of fittings and installation components

1. Packing box list of indoor unit centralized controller KCCT 64 I. Please check whether the assemblies are complete.

No.	Name	Quantity	Remarks
1	Indoor unit centralized	1	_____
2	Fastening cross groove pan head self-tapping	6	GB845/ST3.9*25-C-H(S)
3	Fastening plastic expansion	6	Φ6*30
4	Installation & Operation Manual	1	_____
5	Matching resistance	4	120Ω

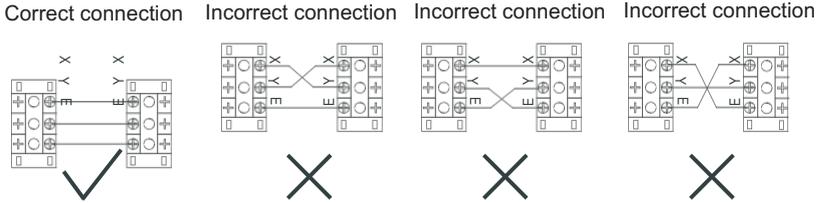
2. Installation assemblies prepared on the site

No.	Name	Quantity (install into Wall)	Selected model	Remarks
1	3-core control shielded cable	2 PCS	RVVP-300/300 3X0.75 mm ²	One for communicating with the air conditioner; the other for communicating with the computer.
2	3-core cable	1 PCS	RVV-300/500 2X1.5 mm ²	For power supply of the Centralized
3	Switch box	1 PCS	_____	_____
4	Wire pipe (jack casing pipe, captive nut)	2/3 PCS	_____	_____
5	Tighten strip	Several pieces	_____	For binding cables (as the case maybe)

1.2 Notes to installation

Notes to installation

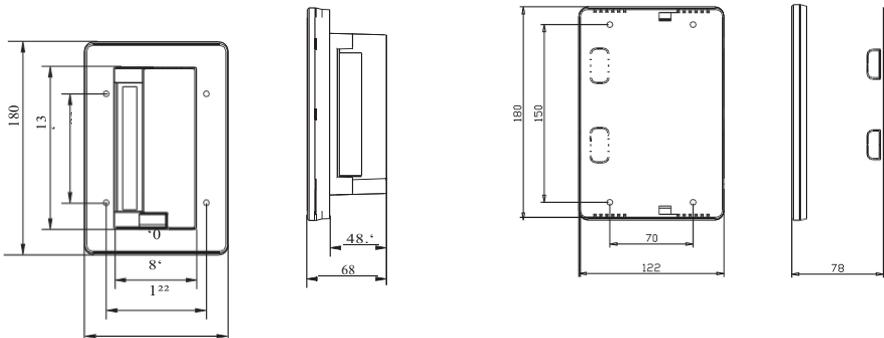
- 1) Directly insert 220V~50Hz power into the wiring socket L, N terminals of centralized controller.
- 2) Do not lay the signal wire and the power wire of the centralized controller in the same power wire pipe, there should be 300~500mm distance between two pipes.
- 3) The signal bus of centralized controller should not exceed 1200m.
- 4) No intermediate joint is allowed for the shielded cable. If joints are inevitable, crimp it with the terminal.
- 5) After the centralized controller is connected, do not use megohmmeter to inspect insulation of the signal cable.
- 6) Wiring mode of the centralized controller and the network interface:
 The communication port between the centralized controller and the network interface of the air conditioner is polarity-sensitive. The X,Y and E at both sides should correspond properly. Do not cross-connect cables. The same principles apply to the RS485-RS232 of the centralized controller.



1.3 Installation procedure

Procedure of installing electrician switch box of centralized controller

The size of the centralized controller wire depends on the length. Use a wiring pipe adaptable to the wires of the centralized controller to perform installation.



KCCT-64-I

Fig.1.1 Installation size (unit: mm)

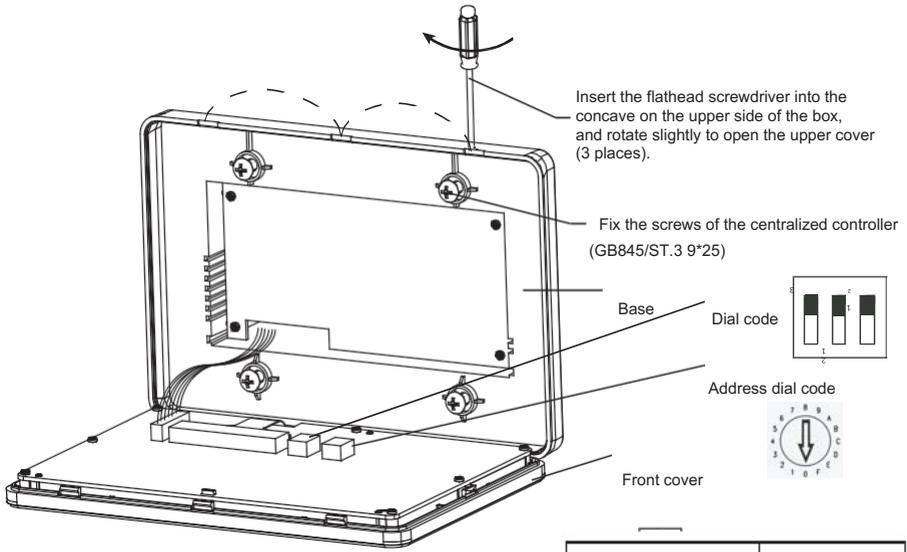


Fig. 1.2 Installation diagram

Dial code position	Address range
	00 ~ 15

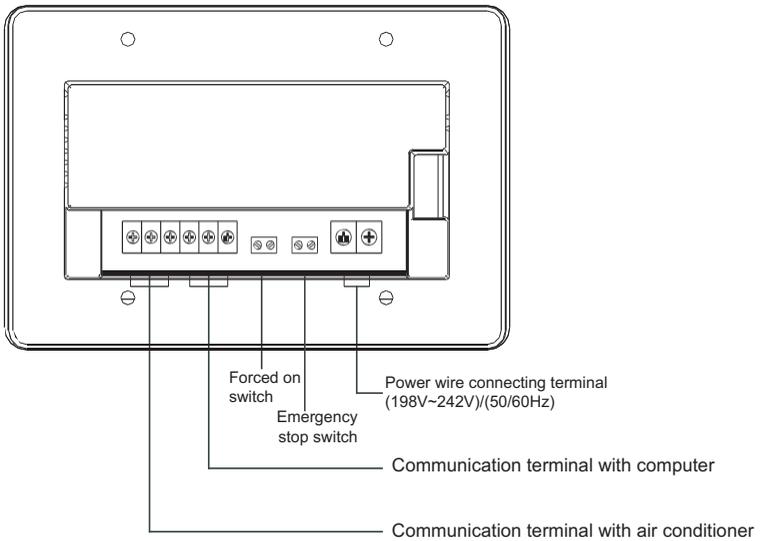


Fig.1.3 Terminal instruction of centralized controller

1.4 System wiring instruction

Network air conditioner wiring diagram (two types for indoor unit: one is the main control board needs an external network interface module; the other is network interface module is built in the main control board).

RS232 pin buckle: insert the COM port of computer

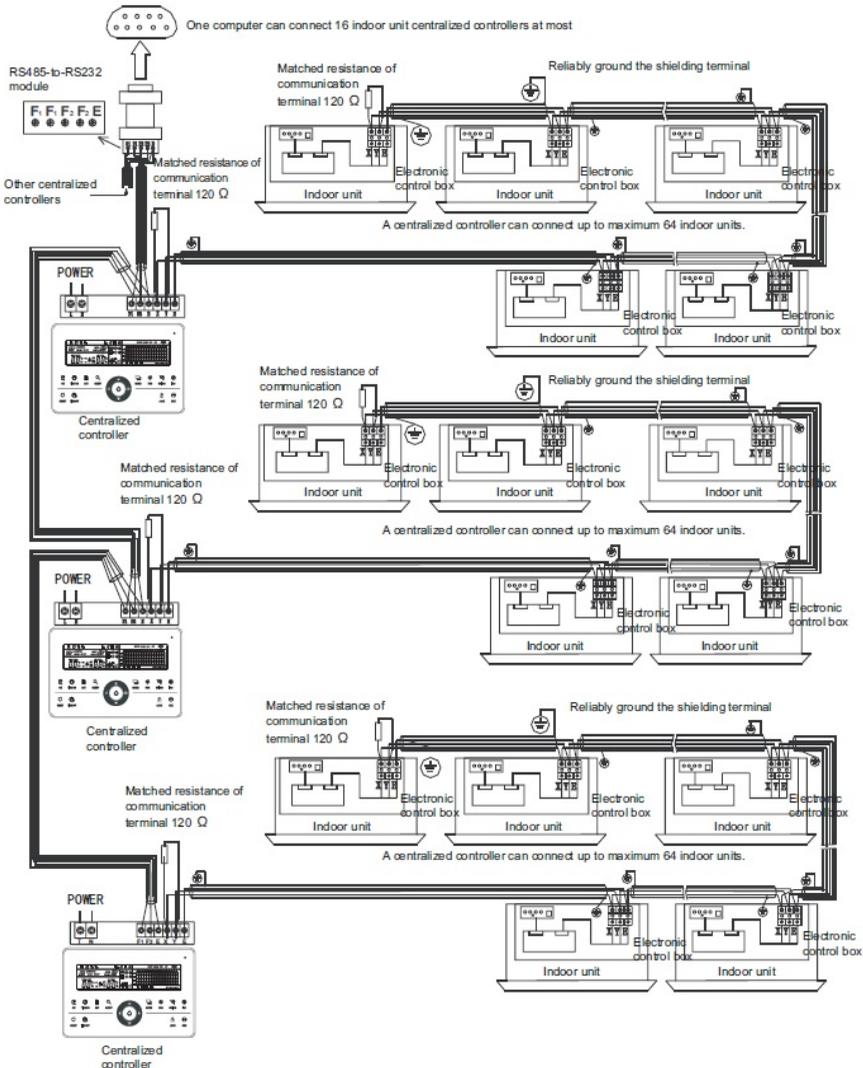


Fig.1.4 Wiring diagram



Note

The RS485-to-RS232 module in the wiring diagram and the wires are put into use only when the network system needs to be connected with the computer. One computer can be connected with 16 centralized monitors at most. Namely a maximum of $16 \times 64 = 1024$ indoor units can be connected. The centralized controllers are differentiated by address bits. The configurable range is 0~15. No duplicate address of centralized controller is allowed in a unified network.

1.5 Safety precautions

■ Safety precautions

- ! Read the safety precautions carefully before installing the unit.
- ! Stated below are important safety issues that must be obeyed.
- ! The meanings of all parts are as follows:

	Warning	Means improper handling may lead to personal injury or property loss.
	Note	Means improper handling may lead to personal injuries.

- ! Upon completion of the installation, check whether the trial run is normal, and deliver the user's manual to the user.



Warning

Please entrust the distributor or professionals to install the equipment. Installation by unauthorized persons may lead to imperfect installation which may result in electric shock or fire.

Adhere to this installation manual. Improper installation may lead to electric shock or fire.

Reinstallation must be performed by professionals. Improper installation may lead to electric shock or fire.

Do not uninstall the equipment without permission. Unauthorized uninstalling may lead to abnormal operation, heating or fire of the air conditioner.



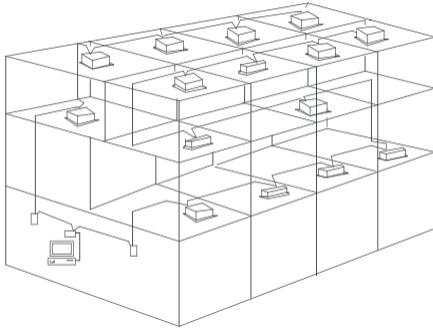
Note

Do not install the equipment in a place vulnerable to leakage of flammable gases. Once flammable gases are leaked and left around the centralized monitor, fire may occur.

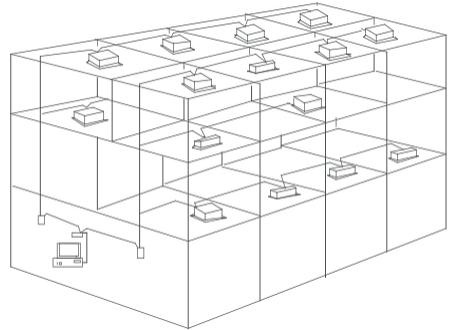
The wiring shall adapt to the current of the centralized monitor. Otherwise, electric leakage or heating may occur and result in fire.

1.6 System wiring instruction.

1) Wiring diagram of building network air conditioning system.



(a)



(b)

- (a) Wiring diagram with good communication effect (recommended)
- (b) Wiring diagram with poor communication effect (not recommended because it may lead to poor communication)

2) System wiring diagram of centralized monitoring and indoor unit of air conditioner.

Both of the following wiring modes of centralized monitor and indoor unit are applicable: (Quantity of indoor units connected with each centralized monitor is less than or equal to 64).

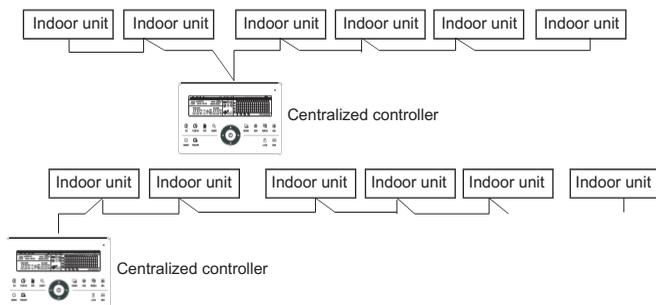


Fig.1.5 Wiring diagram of centralized controller and air-conditioning indoor unit



OPERATION PART

2.1 Function instructions

1. Centralized controller is used for network air-conditioner to realize centralized controlling and data querying. Each centralized controller can be connected to maximum 64 indoor units, through 485 communications can to form an air conditioner LAN and realize the centralized monitoring network in the air conditioner.
2. Centralized controller can connect with computer or gateway, to realize the LAN connection between computer and all the air conditioners, then can use computer to remote control (the computer software must support it). Each local computer or gateway maximally connect 16 centralized controllers.
3. Between centralized controller and air conditioner, computer and centralized controller are applied to the master-slave responding communication method. In the LAN of centralized controller and air conditioner, centralized controller will be as the master unit, and the air conditioner will be as the slave unit. In the LAN of computer and centralized controller, the computer or gateway will be as the master unit, and the centralized controller will be as the slave unit.

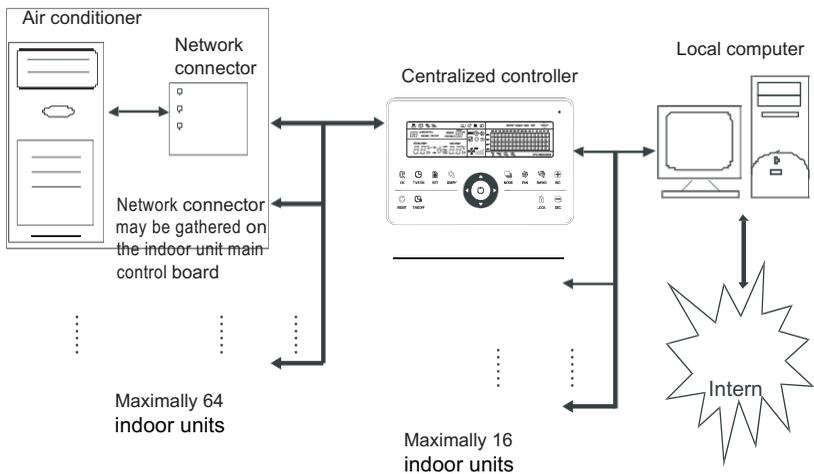


Fig.2.1 Air conditioner network control system structure diagram

2.2 Function instructions

1. Power and voltage range:
Input voltage: single phase 198V~242V;
AC input power frequency: 50Hz/60Hz;
2. Operating environment temperature: -15°C~+43°C;
3. Operating environment humidity: RH40%~RH90%.

2.3 Function instructions

2.3.1 State indication

1. LED state indication lamp

1) Normal state

1- Normally on

The LED indication lamp will be normally on when any one of the following situations display:

a) In the centralized controller network, one or more air conditioners are under operating state.

b) Through the centralized controller's operation, when the centralized controller is sending order to the air conditioner, LED indication lamp will be normally on. When finish sending, LED indication lamp will be off.

2- Off

The air conditioners in the centralized controller network are all under off status.

2) Abnormal state

If the air conditioner in the centralized controller are error or the controller has error, LED indication lamp will be flashed as 2 Hz.

2. Backlight

When the backlight is off, press any key except "RESET", the backlight will be on. Press the key of centralized controller, backlight will be on.

No key operation over 30s, backlight will be off.

3. Buzzer

Under the situation of the backlight is on and the centralized controller key are un-lock, press any key (except for the , the centralized controller will carry on relative function, the buzzer will buzz once only. If this key has long press function, the centralized controller will carry on the relative function, and the buzzer will buzz once only.

Under the backlight is off, press any key (except for  key), only light on the backlight, the centralized controller will not operate the key, and the buzzer will not buzz.

2.3.2 Power on or reset

When the centralized controller is powered on or reset through the key  :

The buzzer long buzz for 2 seconds: all display segments of LCD are luminous for 2 seconds and then goes off;

1 second later, the system enters the normal display status. The centralized controller is in the main page display status and displays the first page, and searches the in-service air conditioners in the network.

Once the search is finished, the centralized controller enters the mode setting page, and sets the first in-service air conditioner by default.

2.3.3 Emergent shutdown and compulsory startup

When the emergent stop switch of the centralized controller is turned on, all air conditioners in the network of the centralized controller will be shut down compulsorily. The centralized controller and computer and all functional modules are disabled from startup and shutdown until the emergent stop switch is turned off. When the forced-on switch

of the centralized controller is turned on, all air conditioners in the network of the centralized controller will start up compulsorily. By default, they will run in the cooling mood. The startup and shutdown operations of the centralized controller and computer and all functional modules will be disabled (only the command of startup is sent to the air conditioner without affecting operation of the remote controller after startup) until the forced-on switch is turned off.

If the foregoing two switches are turned on concurrently the emergent stop switch shall have preference.

2.3.4 All kinds of locking states

1. Centralized controller locking

The centralized controller locking state will be recorded when powered off, re-power on it will recover, unless receiving the unlocking order.

1) Effect

1. When the centralized controller is under locking state, it can not change the air conditioner's operating state through the centralized controller (such as ON/OFF the unit, setting mode, change the setting temperature, change the fan speed, unlock the exiting locking state etc), but it can do the query operation, until unlocking and then recover to normal.

2. When the centralized controller is under locking state, all the air conditioners in the centralized controller network will be locked.

2) Operation

1. Locking

Locking the centralized controller only through the computer.

2. Unlocking

a) Under the centralized controller and computer communicate normally

Only use computer to unlock the centralized controller. When unclancing the centralized controller, the controller will send order to unlock all the controllers of all the air conditioners.

b) Under the centralized controller and computer communicate abnormally

When the centralized controller is under locking state, press "QUERY" key and hold on, then press "MODE" to unlock the controller (it need to re-power on the controller or press "RESET" in one minute).

The locking state of the air conditioner's remote controller will be remained.

2. Remote controller locking

1) Effect

1. When the air conditioner is under remote controller locking state, it will not receive the remote signals from remote controller or wire controller, until unlocking.

2. No operation for the centralized controller, it can operate the air conditioner through the centralized controller.

2) Operation

1. Can lock or unlock through the computer.

2. Can operate by centralized controller.

In the centralized controller setting interface, press "LOCK" to lock or unlock. If the current state is remote controller locking, press the key to unlock.

If no remote controller locking, press the key to lock.

3. Mode locking function

1) Effect

Under mode locking state, through centralized controller to operate the air conditioner,

only can choose the mode which has not conflict with locking mode.

2) Operation

Can set the heating mode locking or cooling mode locking.

Under mode locking state, if set the new mode locking, it must be unlocking first, then can operate the new mode locking.

1-Can lock or unlock through the computer.

2-Can operate by centralized controller.

In the centralized controller setting interface, choose the setting object is all the air conditioner of the centralized controller network, press " " and hold on, then press " " to do the mode locking or unlocking.

If the current state is mode locking, press the key to unlock. If no mode locking, press the key to lock.

4. Centralized controller key locking and unlocking

1) Effect

Under key locking state, except unlocking and " " key, any other keys operations are invalid.

2) Operation

1. Press " " key and hold on, then press " " key, the keys of centralized controller will be locked or unlocked.

If the current state is key locking, press the key to unlock.

If no centralized controller key locking, press the key to lock.

2.when the backlight turn off, the controller key will be locked automatically to operate the controller, must light the backlight by pressing any key first, then press " "key and hold on, press " "key to unlock the key. After 30 seconds no operation, the backlight will turn off, the controller key will be locked automatically again.

2.3.5 ON and OFF operation

Use the " " key and " "key to do the ON and OFF operation for the air conditioners in the centralized controller network.

The ON mode will accord to the system mode locking or other limit conditions for judging, if there is conflict, it will auto adjust to the next mode without conflict; if all the modes have conflict, then it can not operate the unit.

1. Use " " key to ON and OFF the unit

Can operate a single air conditioner or all the air conditioners in the centralized controller network.

1) Choose the object. Through " " key to choose a single air conditioner or all the air conditioners in the centralized controller network. If choose a single air conditioner, then use " ", " ", " " and " " to choose the air conditioner.

2) Through " ", " ", " ", and " " to set the operating mode, fan speed, setting temperature etc. operating parameters.

3) Use " " key, centralized controller send the relative order to the operating object. After setting the operating parameter for the air conditioner, if not press the " " key the setting parameter will not be sent to the air conditioner, and also will not affect the current operation(except locking operation).

2. Use " " key to ON and OFF the unit

Only can operate all the air conditioners in the centralized controller network, not for single air conditioner.

" " key long press: press this key for over 2 seconds then loose.

" " key short press: press this key and then loose within 2 seconds. According to different states and operation ways of air conditions in the current centralized, there are following situations:

1) One or more air conditioners under ON state (include timing process of timing ON and OFF)

“” key only has short press function.

Only send the OFF order to the air conditioners with ON state, not for OFF state units. Activate the power off memory function, to record the current operating state of all air conditioners.

2) All the air conditioners in the centralized controller network are OFF states

1-“” key short press

The centralized controller reads the power off memory contents, and sends relative order to all air conditioners.

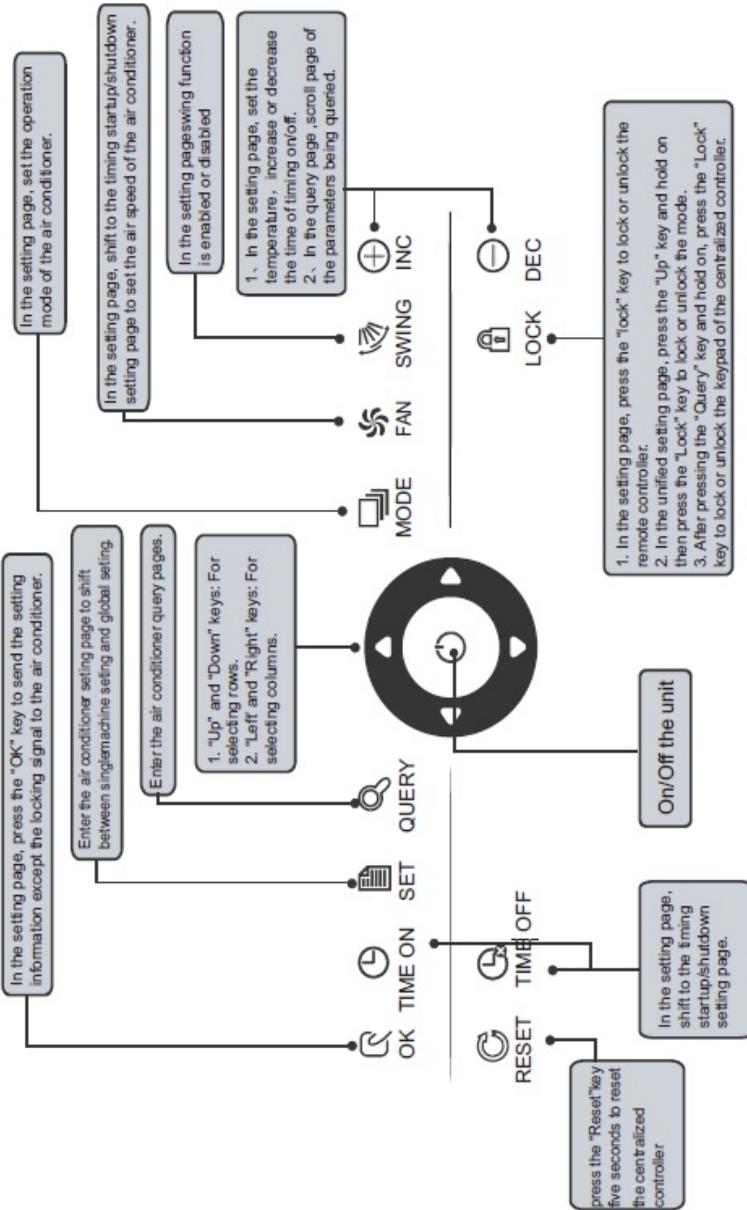
2-“” key long press

a) If the current is under setting interface and the setting mode is not OFF, then the centralized controller will accord to the setting mode, fan speed, setting temperature etc. to send orders to all air conditioners.

b) If the current is under setting interface but the setting mode is OFF state or under other interfaces, the centralized controller will send the default ON order to all air conditioners. The default ON order is: cooling mode, high fan speed, setting temperature is 24°C, operate the swinging function.

2.4 Instruction of electric control function

Keys of centralized controller



2.4.1 Key operation instruction

1. Query key “ QUERY”

Any time when you press the key, the selected operation mode is to query the operation status of the air conditioner.

By default, the first in-service air conditioner will be queried.

2. Set key “ SET”

In other display mode press the key “ SET” to enter the setting mode.

By default, it is single setting and the first in-service air conditioner is displayed.

In setting operation mode, press the key “ SET” again, and the operation will be performed for all air conditioners in the network. Press the key repeatedly to shift between single setting and global setting.



3. Mode key “ MODE”

In setting operation mode Press this key to set the operation.



4. Fan key “ FAN”

In setting operation mode, press this key to set the fan of the indoor unit of the air conditioner to run in the automatic, high, medium or low level of air.



5. Time on key “ TIME ON”

In setting operation mode, press this key “ TIME ON” to set the timing startup of air conditioner;

Press the key “ TIME ON” again to exit the timing setting, and restore the normal temperature regulation operation mode.

6. Time off key “ TIME OFF”

In setting operation mode, press this key “ TIME OFF” to set the timing shutdown of air conditioner,

Press the key “ TIME OFF” again to exit the timing setting and restore the normal temperature regulation operation mode.

7. Swing key “ SWING”

In setting operation mode, press this key “ SWING” to enable or disable the swing function.

If all currently selected air conditioners have no swing function, no effect will result after pressing the key.

8. Leftward key “ ◀”

In the main page, press the key “ ◀” to enter the query mode. By default, it is the first in-service air conditioner.

In any other time, press this key “ ◀” will select the previous in-service air conditioner. In the setting mode, if selected all the air conditioners to operate, this key “ ◀” is invalid.

If it is on the first machine, press this key “ ◀” again, and shift to the last machine. If you hold down this key, the address will decrease one by one.

9. Rightward key “”

In the main page, press this key “” to enter the query mode. By default, it is the first in-service air conditioner.

In any other time, press this key “” will select the next in-service air conditioner. In the setting mode, if selected all the air conditioners to operate, this key “” is invalid.

If it is on the last machine, press this key “” again, and shift to the first machine. If you hold down this key “”, the address will increase one by one.

10. Downward key “”

In the main page, press this key “” to enter the query mode. By default, it is the first in-service air conditioner.

In any other time, press this key “” will select the next corresponding position air conditioner.

In the setting mode, if selected all the air conditioners to operate, this key “” is invalid.

If it is on the last row, press this key “” again, and shift to the first row corresponding air conditioner.

If you hold down this key “”, the row will increase one by one.

11. Upward key “”

In the main page, press this key “” to enter the query mode. By default, it is the first in-service air conditioner.

In any other time, press this key “” will select the previous corresponding position air conditioner.

In the setting mode, if selected all the air conditioners to operate, this key “” is invalid. If it is on the first row, press this key “” again, and shift to the last row corresponding air conditioner.

If you hold down this key “”, the row will decrease one by one.

12. Add key “”

1) Query mode

Press this key “”, display the data of the last page.

If it is now in the last page, press the key “” again and the first page will be displayed.

2) Setting operation mode

1-Temperature adjusting method

Press this key “”, the setting temperature will increase one degree.

If you hold down the key “”, the setting temperature will increase one by one.

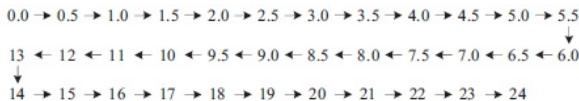
When reached the highest allowed set temperature, it cannot increase.

2-Timing on or timing off setting method

Press this key “”, it will select the next setting time.

If you hold down the key “”, the next data will be selected one by one. When reached the max. allowed setting time, it cannot increase.

he is timing setting change mode is as follow:



13. Reduce key “ ”

1) Query mode

Press this “ ” key, display the data of the previous page.

If it is now in the first page, press the key “ ” again and the last page will be displayed.

2) Setting operation mode

1-Temperature adjusting method

Press this key “ ”, the setting temperature will decrease one degree.

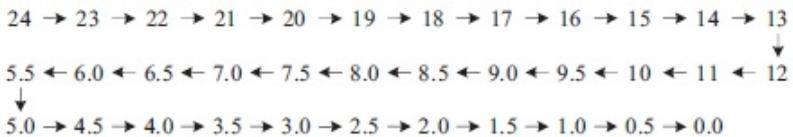
If you hold down the key “ ”, the setting temperature will decrease one by one. When reached the lowest allowed set temperature, it cannot decrease.

2-Timing on or timing off setting method

Press this key “ ”, it will select the next setting time.

If you hold down the key “ ”, the next data will be selected one by one. When reached the min allowed setting time, it cannot decrease.

The timing setting change mode is as follow:



14. ON/OFF key “ ”

Any time when you press the key “ ”, the centralized startup/shutdown operation is performed for all current in-service air conditioners in the centralized controller network. Detailed operation refers to P12.

15. Confirmation key “ ”

In the setting mode, press the key “ ” to send the currently selected mode status and the auxiliary function status to the selected air conditioner. Detailed operation refers to P12.

16. Reset key “ ”

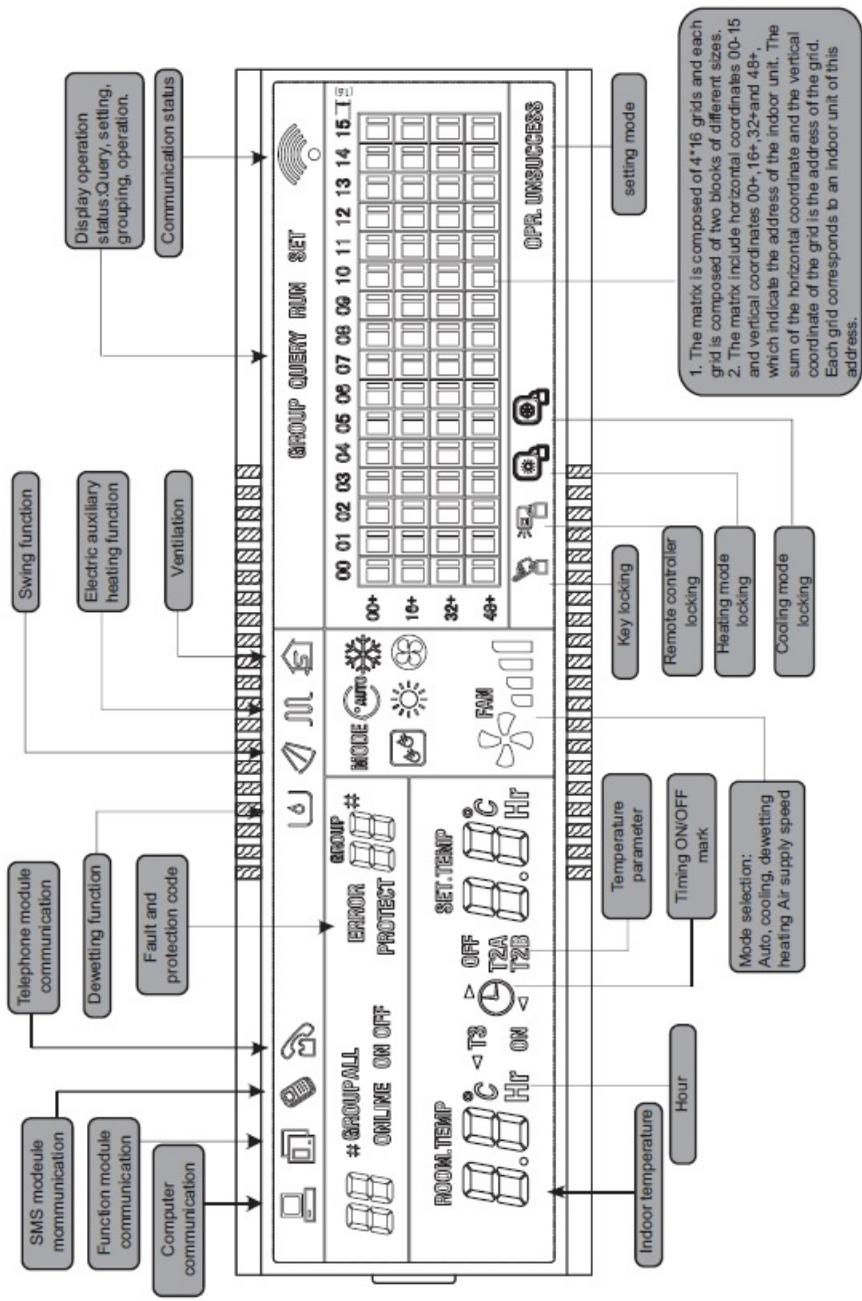
Anytime when the reset key “ ” is pressed, the centralized controller will reset. The result is the same as the result of restoring power-on after power failure.

17. Lock key “ ”

Anytime when this key “ ” is pressed, the selected air conditioner can be locked or unlocked.

Detailed operation refers to P11.

Pantalla completa LCD



1. The matrix is composed of 4*16 grids and each grid is composed of two blocks of different sizes.
 2. The matrix include horizontal coordinates 00-15 and vertical coordinates 00+, 16+, 32+ and 48+ which indicate the address of the indoor unit. The sum of the horizontal coordinate and the vertical coordinate of the grid is the address of the grid. Each grid corresponds to an indoor unit of this address.

Fig. 2.3

2.4.2 LCD instruction

1. General display data entries

1) General display data is displayed in all display pages.

1- Under the interconnected control of the computer or gateway, the data is displayed in graphic . Otherwise, no data is displayed.

2- If the centralized controller is connected with the functional module for communication, the data is displayed in graphics . Otherwise, no data is displayed.

3- If the centralized controller is connected with the SMS remote control module for communication, the data is displayed in graphics . Otherwise, no data is displayed.

4- If the centralized controller is connected with the telephone remote control module for communication, the data is displayed in graphics . Otherwise, no data is displayed.

5- In normal operation of the centralized controller, the periodical cycle module communicates with the network interface module, and the data is displayed dynamically and cyclically: (blank), , , .

6- In the centralized control locked status or the keypad locked status, the locking flag  is displayed. After unlocking, it is not displayed. In the centralized controller locked status, the locking flag  is displayed as 2Hz. In the keypad lock -ed status, the locking flag  is displayed constantly.

7- In the setting page, if the selected air conditioner is in the remote controller locked status (in case of non-single machine operation, as long as one machine is in the remote controller locked status, it is deemed the locked status), the flag  is displayed constantly.

8- If all indoor units lock the cooling mode, this flag  will display; if all indoor units lock the heating mode, this flag  will display.

2) Data display handing

1- Indoor unit code (address) display: Display range: 00~63-with “#” being luminous concurrently.

2- Indoor temperature display: Display range: 00~99°C (or 99°F). “°C” (or “°F”) and “indoor temperature” are displayed concurrently. If the temperature is higher than 99°C (or 99°F), 99°C (or 99°F) is displayed. If the temperature value is invalid, “- -” is displayed.

3- If timing startup/shutdown is set, the flag  is displayed.

4- T3, T2A and T2B display: In the single-machine query page, display can shift among “T3”, “T2A” and “T2B”, and the temperature value is displayed concurrently, with the corresponding “°C” (or “°F”) being luminous.

5- In case of air conditioner fault or protection, the corresponding fault code or can be displayed.

6- Liquid crystal matrix display description:

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
00+																
16+																
32+																
48+																

a. The array of the liquid crystal display is composed of 4X16 grids, and each grid is composed of two blocks of different sizes (as shown in the above figure).
The status indication table is as follows.

Status Object	Constantly on	Slow blink	Fast blink	Not bright
Big black block	In-service	Selected	/	Out of service
Small black block	Power on			Fault of indoor/ outdoor unit

b. The array includes horizontal coordinates 00-15 on the up side and vertical coordinates 00+, 16+, 32+ and 48+ on the left side, which indicate the address of the indoor unit. The sum the horizontal coordinate and the vertical coordinate composes the grid the address of the grid. Each grid corresponds to an indoor unit of this address.

2. LCD display description
1) Description of the main page

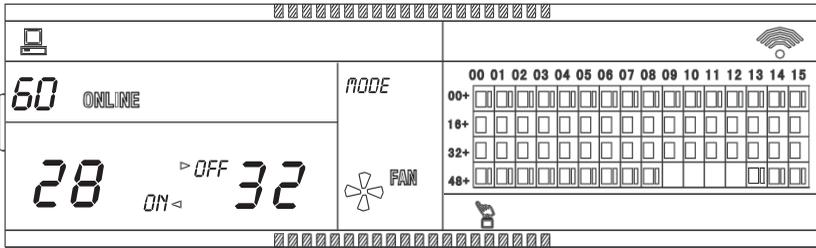


Fig 2.5 The example diagram of the main page

1-The LCD displays the main page, 60 air conditioners are in service, which 28 are powered on and 32 off.

2-The address of the air conditioners is sum of the coordinates. For example, the address of (48+, 09) is 48+09=57.

3-In the array, the big dots from (1a+, 00) to (32+, 15) are luminous, and the small dots are not luminous. It indicates the 32 air conditioners with the addresses from 16 to 47 are powered off.

4-In the array, the big and small dots from (48+, 09) to (48+, 12) are not luminous. It indicates the four air conditioners with the addresses from 57 to 60 are outside.

5-All other big and small dots in the array are luminous. It indicates all other air conditioners are in the net powered on.

6-The centralized controller communicates with the computer normally, when the keypad of the centralized controller is locked.

2) Description of the query page

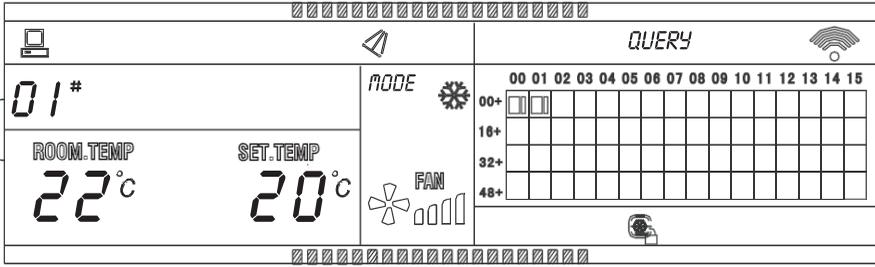


Fig 2.6 The example diagram of the query page

Š The LCD display shows the query page, and the air conditioner with the address of 01 is being queried.

Ś Mode of the air conditioner with the address 01 is: Cooling, strong air, swing on, indoor temperature 22°C, set temperature 20°C, cooling mode "lock".

Ŝ In the array, only the big and small black dots at (00+,00) and (00+,01) are luminous. It indicates the in-service and power-on status of the air conditioners with the addresses of 00 and 01.

Š The centralized controller communicates with the computer normally.

3) Description of the setting page

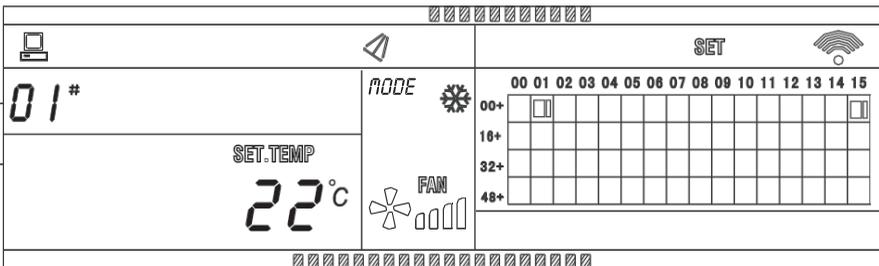


Fig 2.7 The example diagram of setting page

1-The LCD display shows the setting page, and queries the air conditioner with the address of 01 .

2- Mode of the air conditioner with the address 01 is: Cooling, strong air, swing on, set temperature 22°C, cooling.

3- In the array, only the big black dots at (00+,01) to (00+,15) are luminous. It indicates the air conditioners with the addresses 01 and 15 are in service.

4- The centralized controller communicates with the computer normally.

4) Fault page display description

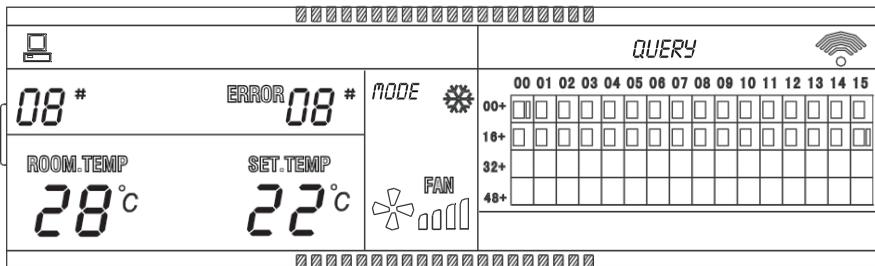


Fig 2.8 The example diagram of fault page

- 1-Query the air conditioner with the address of 08 in the query page.
- 2-The air conditioner with the address of 08 is faulty, and fault code is 08. The big black dot below (00+,08) blinks.
- 3-In the array, only the big and small black dots at (00+,00) and (16+,15) illuminate. It indicates the in-service status of the air conditioner power on, with the addresses 00 and 31.
- 4-The centralized controller communicates with the computer normally.

2.4.3 Other specifications

1. Dial code operation specification

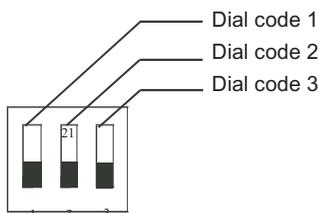


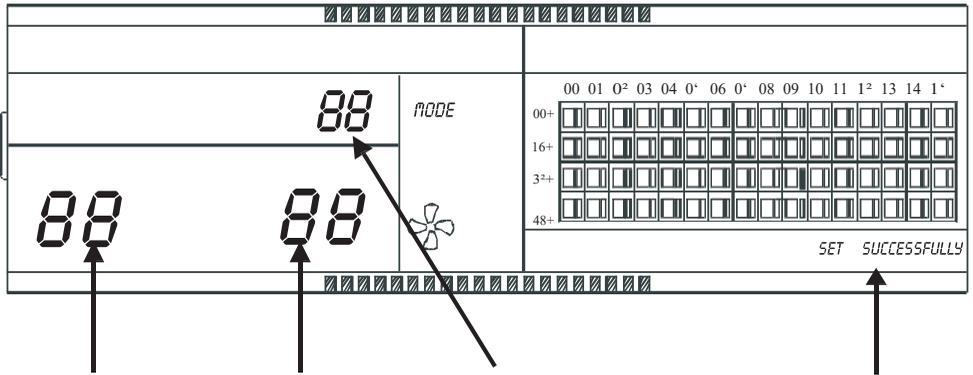
Table 2-1 Dial code definitions

	21	2))
Dial code 1	Three-pipe CCM30	Two-pipe CCM30
Dial code 2	Fahrenheit	Centigrade
Dial code 3	Has optional function	No optional function

2. reminding function to clear the filter

1- When the time of centralized controller powered on add up to the selected parameter time, the centralized controller will remind the user to clear the filter. The reminding dual eight (Fig. 2.9c) displays “FL”.

2- When the centralized controller display FL, it needs to manual operation to clear this reminding. Press “ SWING ” key and hold on then press “ QUERY ” key, can clear FL reminding. At the same time, the accumulated time of centralized controller powered on will be cleared.



a. Function selection b. Parameter selection c. Reminding d. "Set successfully" reminding

Fig 2.9 Filter net in addition to the dust function involves of show a contents

2) Function setting

➤ Dial the dial code 3 to "ON", select the "Has optional function" referring to table 2.1 to , and then power on the centralized controller, in 1 minute press "  " key and hold on then press "  " key, enter to optional function setting. Dual eight represented function selection (Fig.2.9 a) will be flashed with 1Hz frequency (default display 00), display the optional function code (see table 2.2). Press "  " and "  " keys to select function, and then press "  " key to enter parameter selection.

➤ After enter parameter selection, dual eight represented function selection will be lighted on, dual eight represented parameter selection (Fig.2.9 b) will be flashed with 1Hz frequency, display optional parameter code. Through pressing "  " and "  " keys to select the detailed parameter.

➤ Press "  " to confirm parameter selection(details parameter codes' corresponding time refer to table 2.3).

➤ After setting successfully, Dual eight represented function selection and dual eight represented function selection will be lighted on, the screen will display "Setting successfully" (Fig. 2.9 d). After 3 seconds will auto exit optional function setting. The screen will back to normal display.

After enter optional function setting, no operations in 5 seconds will auto exit function selection, the setting parameter will not change. Only press "  " key to confirm the parameter then the setting parameter will save.

Table 2-2 The code of selecting the clear filter function

Function code	Function setting
00	Only display, no function
01	Cleaning filter screen reminding

Table 2-3 The code of different times of reminding clear filter

Parameter code	Time (hour)
00	0
01	1250
0 ²	2500
03	5000
04	10000

2.4.4 Error code table

Fault code	Fault content	Description
EF	Other faults	
EE	Water level detection faults	
ED		
EC	Cleaning fault	
EB	Inverter module protection	
EA	Over-current of compressor(4 times)	
E9	Fault of communication between main board and display board	
E8	Air speed detection out of control	
E7	EEPROM error	
E6	Zero crossing detection error	
E5	Outdoor unit fault protection	
E4	T2A sensor fault	
E3	T1 sensor fault	
E2	Communication fault	
E1	Phase order error or phase loss	
E0		
07#		
06#		
05#		
04#		
03#	Fault of communication between centralized controller and computer (gateway)	
02#	Fault of communication between centralized controller and functional module	
01#	Fault of communication between centralized controller and network interface module	
00#	Fault of communication between network interface module and main control board	

Protection code	Protection content	Description
PF	Other protection	
PE	Reserved	
PD	Reserved	
PC	Reserved	
PB	Reserved	
PA	Reserved	
P9	Reserved	
P8	Over-current of compressor	
P7	Power supply over-voltage and undervoltage protection	
P6	Discharge low pressure protection	
P5	Discharge high pressure protection	
P4	Discharge pipe temperature protection	
P3	Compressor temperature protection	
P2	Condenser high-temperature protection	
P1	Anti cool air or defrost protection	
P0	Evaporator temperature protection	

2.5 Technical indices and requirements

1. EMC, EMI comply with the CE certification requirements.
2. Electrical safety comply with GB4706.32-2004, GB/T7725-2004.



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